

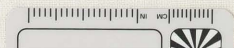
AIM Ann Report
1874 to 1875

REPORT
OF THE
AUCKLAND INSTITUTE
FOR 1874-1875.

ADOPTED AT THE ANNUAL MEETING HELD FEBRUARY 15, 1875.

AUCKLAND :
Printed at the Daily Southern Cross Office, Queen-street.
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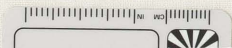
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—
OFFICERS
OF
THE AUCKLAND INSTITUTE.

—♦♦♦♦♦♦♦♦♦♦—
COUNCIL.

President :

J. C. FIRTH, Esq.

CAMPBELL, J. L., M.D.

CLARK, J. M., Esq.

EARL, W., Esq.

EDMONSTONE, G. F., Esq.

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GOODALL, J., Esq., C.E.

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KINDER, Rev. J., D.D.

STEWART, J., Esq., C.E.

Secretary :

T. F. CHEESEMAN, Esq., F.L.S.

Auditor :

C. TOTHILL, Esq.

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*The following Magazines and Periodicals are Circulated
amongst the Members :—*

Quarterly Journal of Microscopical Science
Quarterly Journal of Science
Popular Science Review
Nature
Geological Magazine
Lancet
Art
The Academy
The Garden
Botanical Magazine
Gardener's Chronicle
Chemical News
Engineering
Iron
Journal of Botany
Monthly Microscopical Journal
Science Gossip, &c.

WINTER SESSION, 1875.

Meetings will be held on the following Monday Evenings:

MAY 17
JUNE 14
JULY 19

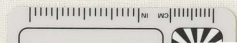
AUGUST 16
SEPTEMBER 13
OCTOBER 11

To Commence at 7.30 p.m.

Extract from the Rules.

1. Any person desiring to become a member of the Institute, shall be proposed in writing by two members, and shall be balloted for at the next meeting of the Council.
2. New Members on election to pay one pound one shilling entrance fee, in addition to the usual subscription of one pound one shilling, the annual subscription being payable in advance on the first day of April for the then current year.
3. Members may at any time become Life-members by one payment of ten pounds ten shillings, in lieu of future annual subscriptions.

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REPORT.

THE Council of the Auckland Institute, in submitting their Report for the past year, cannot but feel that the active interest evinced in the progress of the Institute, notwithstanding the unfavorable circumstances in which it is at present situated, is most encouraging and calculated to awaken hopes of its eventual prosperity.

The sixth volume of the "Transactions of the New Zealand Institute" has been issued during the year, and supplied free of cost to the members. The steadily increasing interest manifested throughout the Colony in the publication of the yearly volume is, perhaps, the best test of the real value of the work performed by the various affiliated societies; and the Council believe that after due allowance has been made for the concentration at Wellington of the staff of the Geological Survey, it will be found that the Auckland Institute has contributed its full share, both as regards the number and quality of its communications.

Seven meetings have been held during the past twelve months, at which the following papers have been read and discussed:—

1. Introductory Address :—by T. HEALE.
2. On the Planting of Trees :—by D. HAY.
3. On Probability :—by the Rev. R. KIDD, L.L.D.
4. Notes on the Fertilisation of the New Zealand Orchids :—by T. F. CHEESEMAN, F.L.S.

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5. Notes on Street Planting :—by R. W. DYSON.
6. On the Discovery of a Stump giving evidence of the existence of Human Life at, or prior to, the Volcanic Era in Auckland :—by J. GOODALL, C.E.
7. Description of a new species of *Senecio* :—by T. F. CHEESEMAM, F.L.S.
8. What is Science ?—by the Rev. R. KIDD, L.L.D.
9. Notice of the re-discovery in New Zealand of *Pterostylis squamata* :—by T. F. CHEESEMAM, F.L.S.
10. The Claims of Science in National Education :—by J. MARTIN.
11. On Deep Sinking in the Volcanic Beds of Mount Eden :—by J. C. FIRTH.
12. Early Instruction :—by J. ADAMS, B.A.
13. Notes on the Origin of Mottled Kauri :—by J. STEWART, C.E.
14. Chemical Analysis of Rock Specimens from Mount Eden :—by J. A. POND.
15. Notes on the Botany of the Bay of Islands and Mongonui Districts :—by T. F. CHEESEMAM, F.L.S.
16. Notes on *Danaüs berenice* and *Gerygone flaviventris* :—by T. B. GILLIES.
17. On Forest Culture :—by J. C. FIRTH.

The number of visitors to the Museum and Library has been larger than could have been reasonably expected, considering the dilapidated and unprepossessing appearance of the building, and the impossibility of obtaining a sufficient amount of space for any satisfactory arrangement of the specimens. Numerous donations have been received during the year, as may be seen from

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the appended list. Special thanks are due to Capt. F. W. Hutton, F.G.S., C.M.Z.S., for a complete skeleton of *Dinornis crassus*, and several other valuable additions. The contributions received from Mr. J. Goodall C.E., and Mr. W. Earl, also deserve special mention. The Council exceedingly regret that a valuable donation made to the Library in 1873 by Dr. Ford, of a nearly complete set of the "Lancet," and other medical books, was not mentioned in the report for that year, and would take this opportunity of repairing the omission.

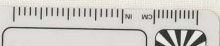
The Council have pleasure in stating that a grant of £100 in aid of the Library was very liberally made by the Provincial Council during its last session. The amount has been expended in the purchase of books on Physical and Natural Science, and over 100 volumes are now on their way from England.

The question of new buildings for the Museum and Library is one that has naturally engaged a considerable share of the attention of the Council, and a variety of plans have been under consideration. Early in the year the Public Buildings' Commissioners suggested that arrangements might be made for accommodating the Institute in the buildings proposed to be erected on the site of the old Supreme Court House, and a lengthy correspondence ensued. Irrespective, however, of the greatly increased risk from fire, and the disadvantages that would follow from the occupation of rooms over which only a partial control could be obtained, it became apparent that the terms proposed by the Commissioners were such as the Council could not accept. Not only was the valuable site now in the possession of the Institute to be given up, but it was stated that an annual rent would be required for the accommodation furnished in return. It is hardly necessary to inform the members that, unless the funds at the disposal of the Institute were materially increased, this could not be done consistent with carrying on the objects of the Society in a thorough and efficient manner.

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As the negotiation with the Commissioners is now probably closed, the Council would earnestly recommend that an attempt should be made during the ensuing session to form a building fund, and to proceed with the erection of a Museum on the Society's own site—one in every way suited for the purpose. Rough plans and estimates for a suitable building have been prepared by a competent architect, and are now submitted to the meeting. The Council feel sure that this course will not only be acceptable to the members, but will enlist the sympathy and support of all classes of the community.



THE TREASURER IN ACCOUNT WITH THE AUCKLAND INSTITUTE.

Dr.

FEBRUARY 13TH, 1874, TO FEBRUARY 10TH, 1875.

Cr.

	£	s.	d.		£	s.	d.		
To Balance in Bank of New Zealand, February 13, 1874	..	107	5	0	By Books and Periodicals	..	112	16	10
„ Entrance Fees and Subscriptions	..	207	18	0	„ Additions to Museum	..	23	6	6
„ Grant from Provincial Council in Aid of Library	..	100	0	0	„ Museum Requisites, Printing, Advertisements, &c.	..	41	11	8
„ Rents	..	12	5	0	„ Insurance	..	10	0	0
„ Books, &c., sold	..	6	2	9	„ Curator	..	97	5	0
„ Interest allowed on Investment Account	..	0	10	1	„ Miscellaneous	..	34	12	0
„ Interest allowed on Building Fund Account	..	0	19	0	„ Interest carried to Investment Account	..	0	10	1
					„ Interest carried to Building Fund Account	..	0	19	0
					„ Balance in Bank of New Zealand, February 10th, 1875	..	113	18	9
	£434	19	10			£434	19	10	

INVESTMENT FUND ACCOUNT.

	£	s.	d.		£	s.	d.		
To Cash in Auckland Savings Bank, February 13th, 1874	..	11	13	6	By Cash in Auckland Savings Bank, February 10th, 1875	..	12	3	7
„ Interest to January 1st, 1875	..	0	10	1					
	£12	3	7		£12	3	7		

BUILDING FUND ACCOUNT.

	£	s.	d.		£	s.	d.		
To Cash in Auckland Savings Bank, February 13th, 1874	..	19	15	0	By Cash in Auckland Savings Bank, February 10th, 1875	..	20	14	0
" Interest to January 1st, 1875	..	0	19	1					
	£20	14	0		£20	14	0		

Audited and found correct, Feb. 10, 1875.

CHARLES TOTHILL, AUDITOR.

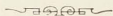
THOMAS F. CHEESEMAN,

TREASURER.

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ADDITIONS AND DONATIONS TO THE MUSEUM AND LIBRARY.



- Meteorological Report for 1873; Colonial Museum and Laboratory Report for 1873.—The Director of the Geological Survey.
Smithsonian Report for 1872; Report of the Chief Signal Officer to the United States; Reports of the United States Geological Survey from 1867 to 1870; various other pamphlets.—The Secretary of the Smithsonian Institution.
Professor Owen's Memoirs on Dinornis; History of the British Fossil Mammals and Birds; on the Anatomy of Apteryx Australis, and other pamphlets.—Sir W. Martin.
Report on the Country between Lake Superior and the Red River; Report on the Saskatchewan Expedition.—R. Wigmore.
Cuvier's Animal Kingdom, 16 vols.—Deposited by J. Goodall, C.E.
Photographs of Moa remains.—Captain F. W. Hutton, F.G.S.
Journal and Proceedings of the Provincial Council of Auckland.—The Speaker.
Journal and Proceedings of the Provincial Council of Otago.—The Speaker.
The Depths of the Sea; by Prof. Wyville Thomson.—Purchased.
Brenchley's Cruise of the 'Curaçoa'.—Purchased.
The Paleontographical Society's Publications for 1871-72-73.—Purchased.
The New Sydenham Society's Publications for 1873-74.—Purchased.
Transactions and Proceedings of the Zoological Society of London. Purchased.
-
- Rock Specimens from the Coromandel Tunnel.—The Coromandel Tunnel Company.
Ironstone, Coal, Steatite, and other Minerals from the Miranda; Fossil Echinoderm from Mercer.—S. P. Smith.
Collection of Minerals, Fossils, etc., from Utah.—The Salt Lake City Museum (?)
Manufactured Tin and Tin Ore from New South Wales.—T. G. Shepherd.
Auriferous Quartz with Copper and Zinc.—F. Whitaker.
Fossil Echinoderm from Raglan.—H. Coumbe.
Collection of 130 Fossils from the lower Silurian to the Tertiary; Indurated Clay found in a mass of lava; large Volcanic Bomb. J. Goodall, C.E.
Building stone from Raglan.—Wilson.

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Block of Obsidian.—W. O'Connell.
Pebble embedded in a block of lava.—Rev. A. G. Purchas.
Rock Specimens obtained by deep sinking in the volcanic beds of Mount Eden.—J. C. Firth.
Brown Iron Ore from Raglan; Ironstone and other minerals from Drury.—Hon. H. Chamberlin.
Clay with volcanic steam vents.—J. Fairburn.
Fossil Shells obtained from the bottom of the Queen-street sewer.—J. Burtt.
Minerals from Ohaewai, Bay of Islands.—Ingham Stephens.

Complete Skeleton of *Dinornis crassus*; specimen of Spotted Seal (*Stenorhynchus leptonyx*); 30 Indian and European Bird Skins; Skin of *Nestor notabilis*.—Captain F. W. Hutton, F.G.S.
Twenty N. American and Australian Bird Skins; Skin of Australian Carpet Snake; Skin of long-eared Rabbit.—W. Earl.
Skin of *Procellaria* sp.—H. Arthur
Procellaria Gouldi.—Miss Eames.
Skin of *Stenorhynchus leptonyx*.—Hood, Chatham Islands.
Opposum and Wallaby.—The Acclimatisation Society.
Skull of Tiger; Skull of Ibex.—J. Goodall, C.E.
Skull of Porpoise; one Native Fish.—Hon. Col. Haultain.
Graculus carbo.—J. Watt.
Eggs of *Graculus carunculatus*, *Prion turtur*, and *Prion vittatus*; *Vitrina Kermadecensis*.—T. Kirk, F.L.S.
Nest and Eggs of *Gerygone flaviventris*; specimens of *Danaë berenice*.—T. B. Gillies.
Ringed Water Snake; Flying Fish.—A. T. Maning, New Caledonia.
Ten New Zealand Fishes; N. Z. Echinoderms; N.Z. Shells.—T. F. Cheeseman, F.L.S.
New Zealand Shells.—C. Matthews.
Tridacna gigas.—Deposited by Major Mair.
Two Cuttle Fishes, (*Sepioteuthis major*).—Dr. Wright and J. Wells.
New Zealand Shells.—H. Coumbe, J. George.
Shells from the Chatham Islands.—S. P. Smith.
Helix Busbyi.—J. Webster.
Lizard from Queensland.—S. E. Hughes.
Orange Cowry.—Rev. J. Bates.
British Crustacea.—H. Arthur.
New Zealand Insects.—Rev. J. Kinder, D.D.
Specimens of *Prionoplus reticularis*.—W. McCaul.
New Zealand Coleoptera.—Capt. T. Broun.
Large Spider.—Donor unknown.
Centipede.—W. Dalton.

Wood sections to illustrate the origin of Mottled Kauri. — J. Stewart, C.E.
Maori Carvings —Mrs. Von Tempsky.
Carved Model of a Maori Canoe.—Deposited by Major Mair.
Mori Mat.—S. P. Smith
Maori Weapon.—W. Earl.
Old German Gun.—Mrs. Hale.
Three Silver Coins.—E. B. Dickson.
One Silver Coin.—Miss Chamberlin.

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LIST OF MEMBERS

FOR THE

YEAR ENDING MARCH 31ST, 1875.

Adams, J., Parnell	Cook, C. E., Onehunga
Aickin, G., Auckland	Cowie, The Right Rev. W. G., D.D., Bishop of Auckland
Alexander, C., Auckland	Cox, A., Hamilton
Allen, J. E., Auckland	Cruickshank, D. B., Auckland
Allom, A. J., Shortland	Curnow, J., Auckland
Allwright, H., C.E., Auckland	
Anderson, J., Auckland	Daldy, W. C., Auckland
Arney, Sir G. A., Knt., Chief Justice of New Zealand	Daveney, Capt. B. J., Auckland
Atkin, W., Tamaki	Davy, G. B., Auckland
Atkin, W., Auckland	Dawson, F. W. H., M.R.C.S.E., Auckland
	Day, R., M.D., Auckland
Baber, J., C.E., Remuera	Dickson, E. B., Auckland
Ball, T., Mongonui	Drake, W., Shortland
Barstow, R. C., R.M., Epsom	Dyson, R. W., Auckland
Bates, Rev. J., Devonport	
Beere, D. M., Shortland	Earl, W., Parnell
Biss, S. B., Auckland	Edmonstone, G. F., Auckland
Breen, J., C.E., Rangiriri	Errington, W., C.E., Auckland
Brett, H., Auckland	
Broun, Capt. T., Tairua	Fairburn, J., Otahuhu
Bruce, Rev. D., Auckland	Farmer, The Hon. J., London
Buchanan, Jas., Auckland	Firth, J. C., Auckland
Buchanan, Jno., Auckland	Fish, T., Auckland
Buckland, W. F., Remuera	Floyd, W. H., Auckland
Buckland, W. T., Remuera	Ford, S. H., M.R.C.S.E., Russell
	Fox, A., M.R.C.S.E., Shortland
Campbell, H., Shortland	Fraser, G., Auckland
Campbell, J. L., M.D., Auckland	Fraser, J. M., Auckland
Cawkwell, W. J., Auckland	
Chamberlin, Hon. H., Auckland	George, J., Auckland
Chambers, J., Auckland	Gibbons, E., Onehunga
Chapman, G. T., Auckland	Gillies, T. B., Auckland
Cheeseman, T. F., F.L.S., Rem- uera	Gittes, B., Auckland
Clark, A., Remuera	Goldsboro', C. F., M.D., Parnell
Clark, J. M., Remuera	Goodall, J., C.E., Auckland
Clark, W. H., C.E., Ngaurawahia	Goodfellow, W., Otara
Clarke, H. T., Tauranga	Gorrie, W., Auckland
Codrington, Rev. R. H., Norfolk Island	Graham, W. K., London
	Green, Major, Auckland

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Hall, J. W., Grahamstown
Hannaford, M., Remuera
Harding, S., C.E., Auckland
Haultain, The Hon. Col. T. M.,
Auckland
Hay, D., Parnell
Heale, T., Auckland
Heather, A., Auckland
Henderson, J., C.E., Auckland
Henderson, T., jun., Auckland
Hesketh, E., Auckland
Higginson, H. P., C.E., Auckland
Hill, W. J., Auckland
Hobbs, R., Pokeno
Holdship, G., Auckland
Humphreys, W., Auckland
Hunt, R. R., Ngaurawahia
Hunt, W. A. Remuera

Johnston, G., Auckland
Jones, Owen, Auckland
Jones, S., Auckland
Jordan, R. C., Tauranga

Kemp, H. T., Auckland
Kent, F. D., Auckland
Kidd, Rev. R., L.L.D., Auckland
Kinder, Rev. J., D.D., St. John's
College
Kirk, T., F.L.S., Wellington
Kirton, G., Napier
Kissling, G. S., Parnell
Kissling, T., Parnell
Kissling, W. H., Parnell
Knorrp, C. B., C.E., Auckland

Lamb, J., Riverhead
Lambert, S. J., F.R.A.S., New-
ton
Larkworthy, F., London
Leaf, C. J., F.L.S., S.A., G.S.,
London
Lee, W., M.R.C.S.E., Auckland
Lodder, W., Remuera
Luckie, D., Auckland
Lusk, H. H., Auckland
Lyell, J. L., Papakura
Lysnar, C., Auckland

MacCormick, J. C., Auckland
Macdonald, A. V., C.E., Auck-
land
McDonald, D. E., C.E., Auck-
land
Macfarlane, J. S., Auckland
Macfarlane, T., Auckland
Macfarland, R. J., C.E., Gra-
hamstown

Mackay, R., Auckland
Mackechnie, E. A., Auckland
Mackellar, H. S., Wellington
Mackelvie, J. S., London
Maclean, B., Tamaki
Maclean, Sir D., C.M.G., Napier
Maclean, Hon. E., Howick
Macrae, F., Auckland
Mair, Captain G., Tauranga
Mair, R., Whangarei
Mair, Major W. G., Alexandra
Maning, F. E., Hokianga
Martin, J., Auckland
Maunsell, Ven. Archdeacon W.,
D.D., Parnell
Meinertzhagen, F. M., Napier
Mitford, G. M., Parnell
Morton, H. B., Auckland
Morrin, T., Auckland
Monro, H. A. H., Auckland
Moss, F. H., Auckland
Murdoch, D. L., Epsom

Nathan, L. D., Auckland
Nation, Col., Parnell
Nelson, Rev., C. M., Auckland

O'Neill, C., C.E., Auckland
O'Rorke, G. M., Onehunga
O'Sullivan, R. J., Auckland
Owen, G. B., Epsom

Payne, M. H., M.R.C.S.E.,
Shortland
Peacock, T., Auckland
Perkins, E., Auckland
Philips, P. A., Auckland
Philips, C., Auckland
Pollen, Hon. D., M.D., Whau
Pond, J. A., Auckland
Preece, J. W., Auckland
Purchas, Rev. A. G., M.R.C.S.E.,
Onehunga

Rapson, S., Kaukapakapa
Rattray, W., Auckland
Rayner, G., Shortland
Richmond, J., Auckland
Robertson, J., Auckland
Roberts, W. C., Dunedin
Robertson, J., Otahuhu
Ronaldson, J., Kawakawa
Rose, R., Auckland
Russell, T., Auckland

Scott, W., Paterangi
Sheath, A., Auckland
Sheehan, J., Auckland

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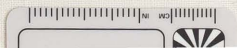
- | | |
|-------------------------------------|---------------------------------|
| Sheppard, A. M., Otahuhu | Vogel, Hon. J., C.M.G., Wel- |
| Shera, J. M., Auckland | lington |
| Sinclair, A., Remuera | Von der Heyde, G., Auckland |
| Slatter, J., Epsom | |
| Sloman, J. F., Auckland | Waddington, E., M.D., Alex- |
| Smales, Rev. G., East Tamaki | andra |
| Smart, J., Auckland | Wallace, J., Flat Bush |
| Smith, S. P., Parnell | Wardrop, A., Auckland |
| Spencer, T., Grahamstown | Ware, W., Auckland |
| Spencer, W. J., M.R.C.S.E., Napier | Watt, J., Auckland |
| Steel, Captain, Hamilton | Waymouth, J., Auckland |
| Stephens, Ingham, Newton | Wayte, E., Auckland |
| Stevenson, J. Y., Auckland | Webster, J., Hokianga |
| Stewart, J., C.E., Auckland | Weetman, S., Mongonui |
| Stewart, T. M., Melbourne | Whitaker, F., Auckland |
| Stockwell, W., L.R.C.S.E., Auckland | White, T. L., Auckland |
| Stone, C. J., Auckland | Whitson, R. W., Auckland |
| | Will, W., Auckland |
| Taylor, Hon. C. J., Tamaki | Williams, H., Bay of Islands |
| Thorne, G., jun., Auckland | Williams, H. M., Auckland |
| Tilly, Lieut. T. C., R.N., Remuera | Williams, W. H., Kawakawa |
| Tinne, T. F. S., Auckland | Williams, The Ven. Archdeacon, |
| Tonks, B., Parnell | W. L., Gisborne |
| Tothill, C., Auckland | Williamson, Hon. James, M.L. |
| Tunny, J. M., Auckland | C., Auckland |
| | Wilson, Major, J., Cambridge |
| | Wilson, J. L., Whangarei |
| | Wright, F. W., L.M.B., Toronto, |
| | Parnell |



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